(19) World Intellectual Property Organization International Bureau

PA PO OMPI



(43) International Publication Date 28 July 2005 (28.07.2005)

PCT

(10) International Publication Number WO 2005/069065 A1

(51) International Patent Classification⁷: G02 G02B 5/02

G02F 1/1335,

(21) International Application Number:

PCT/IB2004/052920

(22) International Filing Date:

24 December 2004 (24.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PCT/IB2004/000067

5 January 2004 (05.01.2004) IB

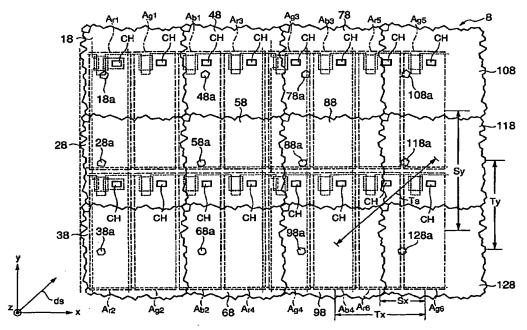
- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): SUMI, Naoki [JP/JP];

c/o Philips Japan, Ltd., Philips Bldg., 2-13-37, Kohnan, Minato-ku, Tokyo 108-8507 (JP).

- (74) Agents: TSUGARU, Susumu et al.; c/o Philips Japan, Ltd., Philips Bldg., 2-13-37, Kohnan, Minato-ku, Tokyo 108-8507 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: A REFLECTIVE STRUCTURE AND AN IMAGE DISPLAY DEVICE



(57) Abstract: A reflective electrode substrate (1) comprises a supporting member having a plurality of first fundamental surfaces (Sf) each having portions (K1, K2) differing in their height, a plurality of undulating portions (18 to 128) formed on the supporting member arranged in the x direction at a undulating portion pitch (Tx) and a plurality of reflective electrodes (Er1,..., Eg6). The plurality of fundamental surfaces (Sf) are arranged in the x direction at the pixel pitch (Sx) and the undulating portion pitch (Tx) is a non-integral multiple of the pixel pitch (Sx).



WO 2005/069065 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.